SECTION DISTING

4110% JENTSCH, Thomas J. <120> NOVEL POTASSIUM CHANNELS AND GENES ENCODING THESE POTASSIUM CHANNELS <133> 2815-127P <140> <1412 <160> 41 <100: FatentIn Ver. 2.1</pre> ·:210.- 1 +:211: 1335 HOLDE INA H213 Homo sapiens -1200 -HIIII - gene +(2211+-1)...(2335)-0.11 · CDS -:232 · .33) .. (2170) 4400 - 1 agocathogt ototgagogo coogagogog coccegeded ggacogtged egggedeegg 60 egreenceage deggegeege de atg ged gag ged dec deg ege ege etc ggd 112 Met Ala Glu Ala Pro Pro Arg Arg Leu Gly 10 160 sty yg. eec seg eec ygg gac ged eec ege geg yag eta ytg geg etc Lei Sly Pro Pro Pro Gly Asp Ala Pro Arg Ala Glu Leu Val Ala Leu 1.5 23 acy goo gtg bag ago gaa dag ggo gag gog ggo ggo ggo ggo tob dog Thr Ala Val Glm Ser Glu Glm Gly Glu Ala Gly Gly Gly Ser Pro 40 35 3.) agalogs ate age ate atg age age desiety deg ada age ged ada etc.

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otg Leu	gag 61u	egg Arg	add Prb	age Arg 98	ggc Gly	tgg Trp	gee Ala	tto Phe	gtc Val 100	tac Tyr	cac His	gto Val	tto Phe	ata Ile 105	ttt Phe	; 00
ttg Leu	ctg Leu	gtc Val	tic Pne 110	agc Ser	tgc Cys	ctg Leu	gtg Val	atg Leu 115	tot Ser	gtg Val	ctg Leu	toc Ser	act Thr 120	atc Ile	cag Gln	448
gag Glu	cac His	cag Gln 125	gaa Glu	ctt Leu	gcc Ala	aac Asn	gag Glu 130	tgt Cys	ctc Leu	ctc Leu	ato Ile	ttg Leu 135	gaa Glu	tta Phe	gtg Val	496
atg Met	atc Ile 140	Val	gtt Val	ttc Phe	ggc Gly	ttg Leu 145	gag Glu	tac Tyr	atc Ile	gtc Val	cgg Arg 150	gtc Val	tgg Trp	tcc Ser	gcc Ala	544
gga Gly 155	Суз	tgc Cys	tgc Cys	cgc Arg	tac Tyr 160	cga Arg	gga Gly	tgy Trp	cag	ggt Gly 165	Arg	ttc Phe	ege Arg	ttt Phe	gcc Ala 170	592
aga Arg	. aag Lys	g dad S Pro	ttc Fhe	: tgt · Cys 175	gtc Val	atc Ile	uac Asp	: tt:	atc Ile 180	· Val	tto Phe	gtg Val	gcc Ala	tcg Ser 185	gtg Val	640
gcc Ala	gto Val	ato Ile	gac : Ala 190	a Ala	ggt Gly	acc Thr	dag Glr	gggo n Gly 195	Asr	at¢ i Il€	: tto : Phe	gcc Ala	acg Thr 200	Ser	gcg Ala	688
ct (Lei	g ogd : Ard	c ago g 3er 209	Met	j aga : Ara	ttc Phe	ctç Leu	; daç 1 Glr 21(n Ile	c cto	g og: : Arq	atg Met	gto Val 215	. Arg	atg g Met	gac Asp	736
ego Aro	c cgc g Arc 221	g 3ly	2 gg(7 Gl;	e acc y Thr	tgg Trp	aaq Lys 225	. Lei	g atq u Lei	g gg«	g to: y Se:	a gtç r Val 230	. Val	e tad L Tyr	e geg c Ala	cat His	784
ago Se: 23:	r Ly	g gaq s Glu	g ote i Lei	g ato u Ile	acc Thr 240	Alá	tgo a Trp	g tak p Ty:	c at r Il·	c gg e Gl 24	y Phé	e etç e Lei	g gto u Val	g cto l Let	atc i Ile 250	83.2

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acc Thr	ato Tžą	285 gjy ggc	tat Tyr	ggt Gly	gac Asp	aag Lyš	aca Thr 290	cog Pro	cac His	aca Thr	tgg Trp	ctg Leu 295	gg: Gly	agg Arg	gtc Val	976
ctg Leu	gct Ala 300	gct Ala	ggc Gly	ttc Phe	god Ala	tta Leu 305	ctg Leu	ggc Gly	atc Ile	tot Ser	ttc Phe 310	ttt Phe	gcc Ala	ctg Leu	ect Pro	1024
gcc Ala 315	ggc Gly	atc Ile	cta Leu	ggc Gly	too Ser 320	gge Gly	ttt Phe	go: Ala	ctg Leu	aag Lys 325	gtc Val	cag Gln	gag Glu	cag Gln	cac His 330	1072
cgg Arg	cag Gln	aag Lys	cac His	ttc Phe 335	Glu	aag Lys	egg Arg	agg Arg	atg Met 340	Pro	gca Ala	gcc Ala	aac Asn	ctc Leu 345	lle	1120
cag Gln	gct Ala	gcc Ala	tgg Trp	Arg	ctg Leu	tac Tyr	toc Ser	acc Thr 355	gat Asp	atg Met	agc Ser	cgg Arg	gcc Ala 360	Туr	ctg Leu	1168
aca Thr	gec Ala	acc Thr	Tr	g tac D Tyr	: tac : Tyr	tat Tyr	gac Asp 370	Ser	atc Ile	: ctc	cca Pro	tod Ser 375	Ph∈	: aga : Arg	gag Glu	1216
ctg Leu	gcc Ala 380	Let	tt: Lei	g ttt i Phe	: qaç e Glu	g cac i His 385	. Val	caa Gln	egç Arç	g god g Ala	e ogo Arg 390	Asn	G1?	≀ Gl}	c cta / Leu	1264
ogg Arç 395	Pro	cto Le	g gar u Gl	g gte u Val	g egg L Arg 400	g Ard	g geg g Ala	n Pro	g gta Val	a coc L Pro 403) Asr	o gga o Gly	gja Ala	a ccc	tcc Ser 410	1312
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tgo Cys	c cc ; Pr:	t gg o Gl	g ga y Gl 45	u Se	d ag r Se	c cg	g atq g Met	g ggG t Gly 435	y Il	c aade Ly.	a ga s Asi	c og: p Ar:	at g Il. 44	e Ar	c atg g Met	1408

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tto Phe	ogg Arg	gca Ala	tot Ser	ctg Leu 495	aga Arg	ctc Leu	aaa Lys	ccc Pro	ege Arg 500	acc Thr	tct Ser	gct Ala	gag Glu	gat Asp 505	gcc Ala	1600
ccc Pro	tca Ser	gag Glu	gaa Glu 510	Val	gca Ala	gag Glu	gag Glu	aag Lys 515	agc Ser	tac Tyr	cag Gln	tgt Cys	gag Glu 520	ctc Leu	acg Thr	1648
gtg Val	gac Asp	gac Asp 515	Ile	atg Met	cct Pro	gct Ala	gtg Val 530	aag Lys	aca Thr	gtc Val	atc Ile	cgc Arg 535	toc Ser	atc Ile	agg Arg	1696
att Ile	cto Leu 540	Lys	t t c Phe	ctg Leu	gtg Val	gcc Ala 545	Lys	agg Arg	a a a Lys	ttc Phe	aag Lys 550	gag Glu	aca Thr	ctg Leu	cga Arg	1744
009 Pro 551	o Tyr	gac Asp	gtg Val	g aac L Lys	gac Asp 560	Yal	att	gag Glu	caç Glr	tac Tyr 565	Ser	gca Ala	ggo Gly	cac	ctg Leu 570	1792
ga: As _l	c ato p Met	g otç : Lev	g (gg)	c cgq y Arq 578	g Ile	: aag : Lys	g agc Ser	ctg Leu	caa Glr 580	a act n Thr	egg Arg	gtg Val	gac Asp	caa Gln 585	1 116	1840
gt Va	1 G1: g gg:	t agg y Arg	g gg g Gl: 59	y Pro	o Gli	g gad 7 Asp	agg Arg	; aag ; Lys 595	s Ali	e egg a Arq	g gaç g Glu	g aag i Lys	ggc Gl} 600	/ ASI	aag Lys	1888
gg Gl	g cc y Pr	d tac o Se: (0)	r As	c gc p Al	g gaq a Glu	g gtç ı Val	g gtq l Val 610	l Asp	z ga 5 Gl	a ato u Il∈	c ago e Sei	atç Met 619	. Me†	g gga	a cgc y Arg	1936
gt. Va	g gt i Va 62	l Ly	g gt s Va	g ga 1 Gl	g aa: u Ly:	g ca: s Gl: 62	n Vai	g cac l Gl:	g t.c n Se	c ato	e gas e Gli 630	1 H15	c aa. s Lys	g cto	g gac : Asp	1984

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ago stg ggo goo gtg daa gtg dog otg tto gad odd gad ato aco too 200	30
ago 114 ggs gss gtg saa gug cog cog see gad dar gr Ser Leu Gly Ala Val Gln Val Pro Leu Phe Asp Pro Asp Ile Thr Ser	
Ser Led Gly A. 4 741 Gl. Val 110 Dol 110 167 665	
gao tao dao ago oot gtg gao bao gag gao ato too gto too goa dag 21	2.9
Asp Tyr His Ser Pro Val Asp His Glu Asp Ile Ser Val Ser Ala Gln	
670 675	
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acg atc age atc tec ego teg gto age acc aac atg gas tga 21	70
Thr Leu Ser Ile Ser Arg Ser Val Ser Thr Asn Met Asp	
685 693 695	
toggatass 33	30
gggaettete agajgeaggg cageacaegg ceageecege ggeetggege teegaetgee 22	30
otorgagges teoggaetse totograett gaactbacte eetcaegggg agagagaesa 22	
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cacqeagtat tgagetgeet gagtgggegt ggtadetget gtggg	
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3ln 3ly Glu Ala Gly Gly Gly Ser Pro Arg Arg Leu Gly Leu Leu	
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31n Gly Glu Ala Gly Gly Gly Gly Ser Pro Arg Arg Leu Gly Leu Leu 35 40 45 Gly Ser Pro Leu Pro Pro Gly Ala Pro Leu Pro Gly Pro Gly Ser Gly 50 55 60	
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31n 31y Glu Ala Gly Gly Gly Gly Ser Pro Arg Arg Leu Gly Leu Leu 35 40 45 Gly Ser Pro Leu Pro Pro Gly Ala Pro Leu Pro Gly Pro Gly Ser Gly 50 55 60 Ser 31y Ser Ala Cys Gly 31n Arg Ser Ser Ala Ala His Lys Arg Tyr 65 70 75 80 Arg Arg Leu Gln Asn Trp Val Tyr Asn Val Leu Glu Arg Pro Arg Gly 85 90 95 Trp Ala Phe Val Tyr His Val Phe Ile Phe Leu Leu Val Phe Ser Cys 100 105 110 Lei Val Leu Ser Val Lei Ser Thr Ile Gln Glu His Gln Glu Leu Ala	
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Thr	Gln	Gly 195		Ile	Phe	Ala	Thr 200	Ser	Ala	Leu	Arg	Ser 205	Met	Arg	Phe
Leu			Leu	Arg	Met	Val 215		Met	Asp	Arg	Arg 220		Gly	Thr	Trp
Lvs	210 Le:	Leu	31y	Ser	val		Tyr	A. a	His	Ser		Glu	Leu	T 1 (5	Thr
225					230					235					240
Ala	Trp	Tyr	lie	Giy 245	Phe	Leu	Val	Leu	11e 250	Phe	Ala	Ser	Phe	Leu 255	Val
Tyr	Leu	Ala	Glu 260	Lys	Asp	Ala	Asn	Ser 265	Asp	Phe	Ser	Ser	Tyr 270	Ala	Asr
Ser	Leu	Trp 275	Trp	Gly	Thr	Ile	Th.r 280	Leu	Thr	Thr	Ile	G1.y 285	Tyr	Gly	Asp
Lys	Thr 290	Pro	His	Thr	Trp	Leu 295	Gly	Arg	Val	Leu	Ala 300	Ala	Gly	Ph.e	Ala
Leu 305			Ile	Ser	Phe	?he	Alā	Leu	Pro	Ala 315		Ile	Leu	Gly	Ser 320
	Phe	Ala	Leu	Lys 325	Val	Gln	Glu	Gln	His 330		Gln	Lys	His	Phe 335	
Lys	Arg	Arg	Met 340		Alā	Ala	Asn	Leu 345		Gln	Ala	Ala	Trp 350		Leu
Tyr	Ser	Thr 355			Ser	Arg	Ala 360		Leu	Thr	Ala	Thr 365	Trp	Tyr	Tyr
Tyr	Asp	Ser	Ile	Leu	Pro	Ser 375		Arg	Glu	Leu	Ala 380		Leu	Fhe	Gu
His 385	Val	Gln	Arg	Ala	Arg 390		Gly	Gly	Leu	Arg 395		Leu	Glü	Val	Arg 400
	À.ā	Pro	Val	Pro 405	Lsp	31 y	Ala	Pro	Ser		Tyr	Pro	Pro	Val 415	
Thr	Cys	His	Arg 420	Pro	Gly	Зer	Thr	Ser 425		Суз	Pro	Gly	7 G1 u 430		Ser
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KZ13 - Artificial Sequence	
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<22: Description of Artificial Sequence: PCR Primer	
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- 113 - DNA	
li · Artificial Sequence	
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2.3.10	
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k313 Artificial Sequence	
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- 223 - Description of Artificial Sequence: PCR Primer	
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.cacagggtt gacacacc	18

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<223> Description of Artificial Sequence: PCR Primer	
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-m11-21	
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213 Artificial Sequence	
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+2223 - Description of Artificial Sequence: PCR Primer	
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4.17 Artificial Sequence	
4.23	
4: 30 - 1 ascription of Artificial Sequence: PCR Primer	
4400 + 10	
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<400 · 23	
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x213% Artificial Sequence	
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32.11 20	
SCIRE TNA	
-0.12- Artificial Sequence	
30.20 ·	
<2003 Description of Artificial Sequence: PCR Primer	
9400 × 30	
botbagbogg coologatog	20
was say says a cool of the says and says a says	
4217 × 23	
-0211 - 20	
FINELY DNA	
-213 - Artificial Sequence	
-0.000 kg	
H2234 Description of Artificial Sequence: PCR Primer	
	20
Gast Stastg gtggtttggc	
-0.014×24	
4211 (2)	
HARLAH DNA	
-1313 - Artificial Sequence	
-: 220 -	
:223 - Description of Artificial Sequence: PCR Primer	
.uly 255011pc1on of medical objection for filmer	
<400.424	3.0
stadigaset caaqiqatee	2.0

steetgasst caagtgates

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SZIZ LIA	
<pre><213> Artificial Sequence</pre>	
Table Transfer Congression	
• 22 (C)	
+223+ lescription of Artificial Sequence: PCR Primer	
+40(1 25	
rata nasag agatggagag g	2.1
+ 210 + 26	
+210+21	
+112 + EMA	
+217 + Artificial Sequence	
•	
940	
Control of the Contro	
- 123 - Lescription of Artificial Sequence: PCR Primer	
+ 400 + 36	
aabtbaqbtg cagcagtgag c	21
- 10 + 27	
+211+71	
- 1.7 + 7MA	
13 - Artificial Sequence	
+ 1.29 ·	
1.3 - Description of Artificial Sequence: PCR Primer	
Seleption of Arthrotal Dogue.ce. For Frimer	
+ ;) : - . 7	0.7
grantiste etteateagg e	21
+111 + 70	
VIII + INA	
-213 - Artificial Sequence	
4.12.2.3 ·	
(223) Description of Artificial Sequence: PCR Primer	
,	
(4.25 - 2.0	
·:400 + 28	20
aacqpatect coccatgtca	20

Alli Vil	
K2108-0MB	
<pre>< clid="example: color: blue;">< clid="example: color: blue;"></pre>	
<220>	
<2%3> Description of Artificial Sequence: PCR Primer	
Name of the state	
<400% 29	2.0
tit å. åsit brosadagaads	
H12 1 0 (+ 13 0)	
-211 · 24	
::12 · ENA	
-:::13 - Artificial Sequence	
-002 0 s	
8.23 · Description of Artificial Sequence: PCR Primer	
was a substitute of the control of t	
<400 × 30	
	24
eqtqagqqag tgagttcaag tacg	2 1
SELECT 31	
×111 × 24	
H. W. F. DNA	
4.13 - Artificial Sequence	
4110	
07:33 - Description of Artificial Sequence: PCR Primer	
od: 0 31	
	24
artanotyat ggagogosot otog	
-1.110 + 32	
-1/11 + 24	
HOMELINE DNA	
HM13 · Artificial Sequence	
-:223 · Description of Artificial Sequence: PCR Primer	
(4) (3 + 32)	
teatocaccg taageteasa etgg	24

SILES FRI

<2135 Homo sapiens

<4000 33

Met Ala Ala Ser Ser Pro Pro Arg Ala Glu Arg Lys Arg Trp Gly
1 5 10 15

Trp Sly Ard Leu Pro Sly Ala Ard Ard Sly Ser Ala Sly Leu Ala Lys 20 25 30

Lys Cys Prc Phe Ser Leu Giu Leu Ala Glu Gly Gly Pro Ala Gly Gly 35 40 45

Ala Leu Tyr Ala Pro Ile Ala Pro Gly Ala Pro Gly Pro Ala Pro Pro 50 55

Ala Ser Pro Ala Ala Pro Ala Ala Pro Pro Val Ala Ser Asp Leu Gly 65 70 75 80

Pro Arg Pro Pro Val Ser Leu Asp Pro Arg Val Ser Ile Tyr Ser Thr 85 90 95

Arg Arg Pro Val Leu Ala Arg Thr His Val Gln Gly Arg Val Tyr Asn 100 105 110

Val Phe Leu Ile Val Leu Val Cys Leu Ile Phe Ser Val Leu Ser Thr 130 135 140

11e 3lu Glr. Tyr Ala Ala Leu Ala Thr Gly Thr Leu Phe Trp Met Glu
145
150
160

Ile Val Leu Val Val Phe Phe Gly Thr Glu Tyr Val Val Arg Leu Trp 165 170 175

Ser Ala Gly Cys Arg Ser Lys Tyr Val Gly Leu Trp Gly Arg Leu Arg 180 185

Phe Ala Arg Lys Pro Ile Ser ILe Ile Asp Leu Ile Val Val Val Ala 195 205

Ser Met Val Val Leu Cys Val Gly Ser Lys Gly Gln Val Phe Ala Thr 210 215 220

mel vi	ā'i		Arg		11a : 331	Ria	ite :		Alt.		, ved i	Arg 1	Xa: 1		11 <i>8</i> 14.
Vāl	Asp	Arg		Gly 245	Gly		Trp.	Arg	Leu 250	Leu	Gly .	Ser '	Val '	/al 255	Phe
Ile	His	Arg	Gln 260	Glu	Leu	Tle	Thr	Thr 265	Leu	Tyr	Ile	Gly	Phe 1	Leu :	Gly
Leu	Πe	Phe 275	Ser	Ser	Tyr		Val 280	Tyr	Leu	Ala	Glu	Lys 295	Asr	Ala	Val
Asn	Glu 230	Ser	Gly	Arg	Val	Glu 295	Phe	Gly	Ser	Tyr	Ala 300	Asp	Ala	Leu	Trp
Trp 305	Gly	Val	Val	Thr	Val 310	Thr	Thr	Ile	Gly	Tyr 315	Gly	Asp	Lys	Val	Pro 320
Gln	Thr	Trp	Val	Gly 325	Lys	Thr	Ile	Ala	Ser 330	Cys	Phe	Ser	Val	Phe 335	Ala
Ile	Ser	Phe	Phe		Leu	Pro	Ala	Gly 345		Leu	Gly	Ser	Gly 350	Phe	Ala
Leu	Lys	: Val		Gln	Lys	Gln	Arg 360		Lys	His	Phe	Asn 365	Arg	Gln	Ile
Pro	Ala 370		a Ala	ser Ser	Leu	Ile 375		Th.r	Ala	Trp	Arg 380	Cys	Tyr	Ala	Ala
Glu 385		n Pro	Asp	Ser	Ser 390		Trp	Lys	. Ile	395	Ile	Arg	Lys	Ala	Pro 400
Arq	g Sei	c His	s Thi	c Leu 405		. Ser	Pro	Ser	Pro 410) 	Pro	Lys	: Lys	Ser 415	Val
Va]	l Val	l Ly:	s Ly:		s Lys	s Ph∈	e Lys	425		o Lys	asp	Asr	n Gly 430	Val	Thr
Pro	o Gl	y Gl 43		s Met	t Lev	ı Thi	r Val		o His	s Ile	e Thr	Cys 445	a Asp	Pro	Pro
Glı	u G1 45		g Ar	g Lei	u Asp	His 45		e Sei	r Val	l Asp	Gly 460	y Ty1	r Asp	Ser	ser
Va 46		g Ly	s Se	r Pr	o Th: 47		ı Lev	ı Gl	ı Va	l Sei 475		: Pr	o His	: Ph∈	Met 480

Art The Ash Ser the Ala the Asp Lea Asp Lea Sta Sty Sta Tar Lea 445 **4**9 j Leu Thr Pro Ile Thr His Ile Ser 3ln Leu Arg Glu His His Arg Ala 505 Thr Ile Lys Wal Ile Arg Arg Met Gln Tyr Phe Wal Ala Lys Lys 520 Phe Glm Glm Ala Arg Lys Pro Tyr Asp Val Arg Asp Val Ile Glu Glm 540 535 Tyr Ser Gln Gly His Leu Asn Leu Met Val Arg Ile Lys Glu Leu Gln 555 5.50 545 Arg Arg Leu Asp Gln Ser Ile Gly Lys Pro Ser Leu Phe Ile Ser Val 570 565 Ser Glu Lys Ser Lys Asp Arg Gly Ser Asn Thr Ile Gly Ala Arg Leu 585 580 Asn Arg Val Glu Asp Lys Val Thr Gln Leu Asp Gln Arg Leu Ala Leu 600 605 595 lle Thr Asp Met Leu His Gln Leu Leu Ser Leu His Gly Gly Ser Thr £10 615 620 Fro Gly Ser Gly Gly Pro Pro Arg Glu Gly Gly Ala His Ile Thr Gln £25 630 635 640 Fro Cys Gly Ser Gly Gly Ser Val Asp Pro Glu Leu Phe Leu Pro Ser 645 650 655 Asn Thr Leu Pro Thr Tyr Glu Gln Leu Thr Val Pro Arg Arg Gly Pro 660 665 670 Asp Glu Gly Ser 675

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2110 844

-12121 PRT

<213> Homo sapiens

:400> 34

Met Val Gir Lys Ser Arg Ash Gly Gly Val Tyr Pro Gly Pro Ser Gly 10 15

vil Lye Lys Leu Lys Val Sly The Val Jly Leu Asp Pro Sly Ala Pro 2. 3. Asp Ser Thr Arg Asp Sly Ala Leu Leu Ile Ala Sly Ser Glu Ala Pro 40 Lys Arg Bly Ser Ile Leu Ser Lys Pro Arg Ala Gly Gly Ala Gly Ala 601 5.5 Gly Lys Pro Pro Lys Arg Ash Ala Phe Tyr Arg Lys Leu Glm Ash Phe 70 75 80 Leu Tyr Asn Val Leu Glu Arg Pro Arg Gly Trp Ala Phe Ile Tyr His as 9c 95 Ala Tyr Val Phe Leu Leu Val Phe Ser Cys Leu Val Leu Ser Val Phe 100 105 110 Ser Thr Ile Lys Glu Tyr Glu Lys Ser Ser Glu Gly Ala Leu Tyr Ile 115 120 125 Leu Glu Ile Val Thr Ile Val Val Phe Gly Val Glu Tyr Phe Val Arg 130 135 140 Ile Trp Ala Ala Gly Cys Cys Cys Arg Tyr Arg Gly Trp Arg Gly Arg 145 150 155 Leu Lys Phe Ala Arg Lys Pro Phe Cys Val Ile Asp Ile Met Val Leu 165 170 175 Ile Ala Ser Ile Ala Val Leu Ala Ala Gly Ser Gln Gly Asn Val Phe 180 185 Ala Thr Ser Ala Leu Arg Ser Leu Arg Phe Leu Gln Ile Leu Arg Met 200 195 Ile Arg Met Asp Arg Arg Gly Gly Thr Trp Lys Leu Leu Gly Ser Val 220 215 210 Val Tyr Ala His Ser Lys Glu Leu Val Thr Ala Trp Tyr Ile Gly Phe 230 235 225 Leu Cys Leu Ile Leu Ala Ser Phe Leu Val Tyr Leu Ala Glu Lys Gly 250 245

264

Gla Asn Asp His Phe Asp Thr Tyr Ala Asp Ala Leu Trp Trp Gly Leu

Tie Thr Leu Thr Thr Ile Gly Tyr Nly Asp lys Tyr Fro Gln Thr Trp 280 Asn Gly Ary Leu Leu Ala Ala Thr Phe Thr Leu Ile Gly Val Ser Phe (300 295 Fhe Ala Leu Fro Ala Gly Ile Leu Gly Ser Gly Phe Ala Leu Lys Val 310 315 320 Sin Glu Sin His Ard Gln Lys His Phe Glu Lys Arg Arg Asn Fro Ala 325 330 335 Ala Gly Leu Ile Glr. Ser Ala Trp Arg Phe Tyr Ala Thr Asn Leu Ser 340 345 350 Arg Thr Asp Leu His Ser Thr Trp Gln Tyr Tyr Glu Arg Thr Val Thr 355 360 365 Val Pro Met Tyr Arg Leu Ile Pro Pro Leu Asn Gln Leu Glu Leu Leu 370 375 380 Arg Asn Leu Lys Ser Lys Ser Gly Leu Ala Phe Arg Lys Asp Pro Pro 385 390 395 400 Pro Glu Pro Ser Fro Ser Gln Lys Val Ser Leu Lys Asp Arg Val Phe 405 410 415 Ser Ser Pro Arg Gly Val Ala Ala Lys Gly Lys Gly Ser Pro Gln Ala 420 425 Gln Thr Val Arg Arg Ser Pro Ser Ala Asp Gln Ser Leu Glu Asp Ser 440 435 Pro Ser Lys Val Pro Lys Ser Trp Ser Phe Gly Asp Arg Ser Arg Ala 455 460 450 Arg Gln Ala Phe Arg Ile Lys Gly Ala Ala Ser Arg Gln Asn Ser Glu 470 475 465 Glu Ala Ser Leu Pro Gly Glu Asp Ile Val Asp Asp Lys Ser Cys Pro 490 485 Cys Glu Phe Val Thr Glu Asp Leu Thr Pro Gly Leu Lys Val Ser Ile 505 500 Arg Ala Val Cys Val Met Arg Phe Leu Val Ser Lys Arg Lys Phe Lys 520

thu ser led Ary Pro Tyr Asp Val Met Asp Val lie Glu Gin Tyr Ser 535 Ala Gly His Leu Asp Met Leu Ser Arg Ile Lys Ser Leu Gln Ser Arg 555 563 550 Val Asp Gin lie Val Gly Arg Gly Pro Ala lie Thr Asp Lys Asp Arg 565 570 573 Thr Lys Gly Pro Ala Glu Ala Glu Leu Pro Glu Asp Pro Ser Met Met 580 585 590 Gly Arg Leu Gly Lys Val Glu Lys Gln Val Leu Ser Met Glu Lys Lys 595 600 605 Leu Asp Phe Leu Val Asn Ile Tyr Met Gln Arg Met Gly Ile Pro Pro 610 615 620 Thr Glu Thr Glu Ala Tyr Phe Gly Ala Lys Glu Pro Glu Pro Ala Fro 630 635 640 625 Pro Tyr His Ser Pro Glu Asp Ser Arg Glu His Val Asp Arg His Gly 645 650 655 Cys Ile Val Lys Ile Val Arg Ser Ser Ser Ser Thr Gly Gln Lys Asn 660 665 670 Phe Ser Ala Pro Pro Ala Ala Pro Pro Val Gln Cys Pro Pro Ser Thr 675 680 685 Ser Trp Gln Pro Gln Ser His Pro Arg Gln Gly His Gly Thr Ser Pro 690 695 Val Gly Asp His Gly Ser Leu Val Arg Ile Pro Pro Pro Pro Ala His 705 710 715 Glu Arg Ser Leu Ser Ala Tyr Gly Gly Gly Asn Arg Ala Ser Met Glu 730 725 Phe Leu Arg Gln Glu Asp Thr Pro Gly Cys Arg Pro Pro Glu Gly Thr 740 745 Leu Arg Asp Ser Asp Thr Ser Ile Ser Ile Pro Ser Val Asp His Glu 760 Glu Leu Glu Arg Ser Phe Ser Gly Phe Ser Ile Ser Gln Ser Lys Glu

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Ash Let Asp Ala Let Ash Ser Cys Tyr Ala Ala Val Ala Bro Cys Ala 188 - 190 - 198 - 800

Lys Vál Arg Pro Tyr Ile Ala Glu Gly Glu Ser Asp Thr Asp Ser Asp 805 810 810

leu Cys Thr Pro Cys Gly Pro Pro Pro Arg Ser Ala Thr Gly Glu Gly 820 825 830

Fro Phe Gly Asp Val Gly Trp Ala Gly Pro Arg Lys 835 840

<1210> 35

·1211: 872

-12121- PRT

-213 · Homo sapiens

<:400 - 35

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Asp Gly Gly Gly Gly Gly Gly Ala Ala Asn Pro Ala Gly Gly Asp 20 25 30

Ala Ala Ala Gly Asp Glu Glu Arg Lys Val Gly Leu Ala Pro Gly
35 40 45

Asp Val Glu Gln Val Thr Leu Ala Leu Gly Ala Gly Ala Asp Lys Asp 50 55 60

Gly Thr Leu Leu Glu Gly Gly Gly Arg Asp Glu Gly Gln Arg Arg 65 70 75 80

Thr Pro Gln Gly Ile Gly Leu Leu Ala Lys Thr Pro Leu Ser Arg Pro 85 90 95

Val Lys Arg Asn Asn Ala Lys Tyr Arg Arg Ile Gln Thr Leu Ile Tyr 100 105 110

Asp Ala Leu Glu Arg Pro Arg Gly Trp Ala Leu Leu Tyr His Ala Leu 115 120 125

Val Phe Leu Ile Val Leu Gly Cys Leu Ile Leu Ala Val Leu Thr Thr 130 135 140

Phe Lys Bir. Tyr Glo Thr Val Ser Gly Asp Trp Leo Leo Leo Slo

Thr Fhe Ala Ile Phe Ile Phe Gly Ala Slu Fhe Ala Leu Ard Ile Trp 185 170 175

Ala Ala Gly Cys Cys Cys Arg Tyr Lys Gly Trp Arg Gly Arg Leu Lys 180 185 190

Phe Ala Arg Lys Pro Leu Cys Met Leu Asp Ile Phe Val Leu Ile Ala 198 200 205

Ser Val Pro Val Val Ala Val Gly Asn Gln Gly Asn Val Leu Ala Thr 210 215 220

Ser Leu Arg Ser Leu Arg Phe Leu Gln Ile Leu Arg Met Leu Arg Met 235 230 230 240

Asp Arg Arg Gly Gly Thr Trp Lys Leu Leu Gly Ser Ala Ile Cys Ala 245 250 255

His Ser Lys Glu Leu Ile Thr Ala Trp Tyr Ile Gly Fhe Leu Thr Leu 260 265 270

Ile Leu Ser Ser Fhe Leu Val Tyr Leu Val Glu Lys Asp Val Pro Glu 275 280 285

Val Asp Ala Gln Gly Glu Glu Met Lys Glu Slu Fhe Glu Thr Tyr Ala 290 295 300

Asp Ala Leu Trp Trp Gly Leu Ile Thr Leu Ala Thr Ile Gly Tyr Gly 305 310 315

Asp Lys Thr Pro Lys Thr Trp Glu Gly Arg Leu Ile Ala Ala Thr Phe 325 330 335

Ser Leu Ile Gly Val Ser Phe Phe Ala Leu Pro Ala Gly Ile Leu Gly 340 345 350

Ser Gly Leu Ala Leu Lys Val Gln Glu Gln His Arg Gln Lys His Phe 355 360 365

Glu Lys Arg Arg Lys Pro Ala Ala Glu Leu Ile 31n Ala Ala Trp Arg 370 375 380

Tyr Tyr Ala Thr Asn Pro Asn Arg Ile Asp Leu Val Ala Thr Trp Arg 385 390 396 400

Phe Tyr Glu Ser Val Val Ser Phe Pro Fhe Phe Ard Lys Glu Gln Leu

Gid Ala Ala Ser Ser Gin Lys Led Gly Led Led Asp Arg Val Arg Led 425 Ser Ash Pro Ard Gly Ser Ash Thr Lys Gly Lys Leu Phe Thr Pro Leu 440 435 Asn Val Asp Ala Ile Glu Glu Ser Pro Ser Lys Glu Pro Lys Pro Val 450 455 Gly Leu Asn Asn Lys Glu Arg Phe Arg Thr Ala Phe Arg Met Lys Ala 475 470 4.65 Tyr Ala Phe Trp Gln Ser Ser Glu Asp Ala Gly Thr Gly Asp Pro Met 490 485 Ala Glu Asp Arg Gly Tyr Gly Asn Asp Phe Pro Ile Glu Asp Met Ile 505 500 Pro Thr Leu Lys Ala Ala Ile Arg Ala Val Arg Ile Leu Gln Phe Arg 520 525 515 Leu Tyr Lys Lys Lys Phe Lys Glu Thr Leu Arg Pro Tyr Asp Val Lys 540 535 Asp Val Ile Glu Gln Tyr Ser Ala Gly His Leu Asp Met Leu Ser Arg 555 560 550 lle Lys Tyr Leu Gln Thr Arg Ile Asp Met Ile Phe Thr Fro Gly Pro 565 570 575 Fro Ser Thr Pro Lys His Lys Lys Ser Gln Lys Gly Ser Ala Phe Thr 580 585 590 Fhe Pro Ser Gln Gln Ser Pro Arg Asn Glu Pro Tyr Val Ala Arg Pro 595 600 605 Ser Thr Ser Glu Ile Glu Asp Gln Ser Met Met Gly Lys Phe Val Lys 610 615 620 Val Glu Arg Gln Val Gln Asp Met Gly Lys Lys Leu Asp Phe Leu Val 625 630 635 640 Asp Met His Met Gln His Met Glu Arg Leu Gln Val Gln Val Thr Glu

Tyr Tyr Fro Thr Lys Cly Thr Ser Ser Pro Ala Glu Ala Glu Lys Lys

645 650 655

er;

Fig Asp Asr Arg Tyr Ser Asp Leu Lys Thr Ile Ile Cys Asr Tyr Ser 675 680 685

Glu Thr Gly Fro Pro Glu Fro Pro Tyr Ser Phe His Gln Val Thr Ile 690 695 700

Asp Lys Val Ser Pro Tyr Gly Phe Phe Ala His Asp Pro Val Asn Leu 705 715 720

Pro Ary Gly Gly Pro Ser Ser Gly Lys Val Gln Ala Thr Pro Pro Ser 725 730 735

Ser Ala Thr Thr Tyr Val Glu Arg Pro Thr Val Leu Pro Ile Leu Thr 740 748 750

Leu Leu Asp Ser Arg Val Ser Cys His Ser Gln Ala Asp Leu Gln Gly 755 760 765

Pro Tyr Ser Asp Arg Ile Ser Pro Arg Gln Arg Arg Ser Ile Thr Arg 770 775 780

Asp Ser Asp Thr Pro Leu Ser Leu Met Ser Val Asn His Glu Glu Leu 785 790 795 800

Glu Arg Ser Pro Ser Gly Phe Ser Ile Ser 3ln Asp Arg Asp Asp Tyr 805 810 815

Val Phe Gly Pro Ash Gly Gly Ser Ser Trp Met Arg Glu Lys Arg Tyr 820 830

Leu Ala Glu Gly Glu Thr Asp Thr Asp Thr Asp Pro Phe Thr Pro Ser 335 840 845

Sly Cer Met Pro Leu Ser Ser Thr Gly Asp Gly Ile Ser Asp Ser Val 850 860

Frp Thr Pro Ser Ash Lys Pro Ile 865 870

<210:- 36

<211: 21

<212: DNA

<213> Artificial Sequence

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saggotggat dagtobatty g	् १ ४. ५
<210> 37 <211> 21	
-1212: DNA	
- Market Pan - MC180 Artificial Sequence	
The state of the s	
-122K i:	
-MRR: Pescription of Artificial Sequence: PCR Primer	
-340 CH 37	21
iggriggecag gotgttgotg g	خ ک
KI2101-38	
3.111 · 21	
HARIO - DUA	
W213% Artificial Sequence	
#222 - Description of Artificial Sequence: PCR Primer	
- 401+ 98	
growing what steededayty g	21
COLITECTS SOLICE DNA	
RULE: Artificial Sequence	
+(12) +	
00.22% Description of Artificial Sequence: PCR Primer	
; ())	23
::st.:tusaa tgtagggsst gas	2.0
$\pm 0.019 \pm 40$	
<pre><c011 +="" pre="" u4<=""></c011></pre>	
K21.3 + BNA	
<214 Artificial Sequence	
1000	
< 220%	

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